

RE-2X(St)YRY TIMF

CU/XLPE/ISCR/OSCR/SWA/PVC



Flame Retardant and UV Resistant / Armored Instrumentation Cable

Construction

Conductor:	Plain annealed stranded copper wires (IEC/BS/EN 60228, VDE 0295 Class 2)
Insulation:	EN 50290-2-29 XLPE COMPOUND
Colour code:	Pair: Black / white , numbered ; Triple: Black/white/red, numbered
Lay-up	Pairs/Triples are stranded in layers
Individual Screen	PES TAPE; Tinned Copper Drain Wire; AL-PES TAPE
Overall Shielding	24 µm aluminum / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm ²
Inner Sheath	EN 50290-2-22 PVC COMPOUND
Armour	Galvanized Round Steel Wires
Outer Sheath:	UV resistant, Flame retardant PVC (BS/EN 50290-2, VDE 0207 YM1, thickness VDE 0816-2),
sheath colour:	Black or Blue (RAL 5015) [other colors upon request]

APPLICATION

Cable with protective screen against electromagnetic impacts, for reliable and quick (up to 200 kB/s) transmission of analogue and digital signals, suitable for fixed and mobile installations in process control and data processing systems, mostly in chemical and petrochemical industrial plants and electric power plants. Low values of signal attenuation and low mutual capacitance enable large-distance signal transmission. Laid in dry and damp premises, also outdoor, in air or ground. Not intended for supply purposes



NOTES

RE Instrumentation Cable

Fl*: Flame retardant outer sheath

Yv*: Reinforced sheath version available on request

Ral 5015 blue sheath*: At ex-proof connections in explosive and in flammable environments, intrinsically safe

Ral 9005 black sheath*: Places where UV resistance is required

Ral 7032 grey sheath*: Inside of buildings

Technical data

Conductor Resistance class2(Max)	Insulation Resistance (Min)	Insulation Thickness (Nom)	MUTUAL CAPACITY (Max)	Temperature Range	Flame Propagation
mm ²	Ω/km	MΩxKm	mm	mm ² pF/m	
0.5	36	100	0.6	- 30°C~+70°C (FIXED LAYING)	IEC 60332-3-24
0.75	24.5		0.6		VDE 0482-332-3-24
1.0	18.1		0.6		EN 60332-3-24
1.5	12.1		0.6		BS EN 60332-3-24
2.5	7.41		0.7		

L/R(Ratio) (Max)	Current Load(25°C)	Operating Voltage	Test Voltage	Bending Radius
mm ² pH /Ω	mm ² A			
0.5	25	0.5	6	Cr./Cr.=2000 V Cr./Scrn.=2000 V 7,5 X Cable Ø
0.75	25	0.75	13	
1.0	25	1.0	16	
1.5	40	1.5	20	
2.5	60	2.5	25	

Temperature Range Fixed -30 °C to+90 °C ; During Installation -5 °C -+50 °C

Flame Test IEC/EN/BS/DIN 60332-1-2 (VDE 0482-332-1-2)

Design Standards

IEC 60092-376
EN 50288-7
DIN VDE 819-7

RE-2X(St)YRY TIMF (0.5-2.5)

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Code No.	No. of elements	External diameter	Insulation thickness	Cable weight	Packing*
	N x mm ²	approx. mm	nominal mm	approx. kg/km	
Cross Section :0.5					
7515	1	12.7	0.9	295	CUT
7525	2	18.1	0.9	485	CUT
7535	3	19.2	0.9	555	CUT
7545	4	21.4	1.25	755	CUT
7555	5	22.9	1.25	850	CUT
7565	6	24.8	1.25	950	CUT
7575	7	24.8	1.25	990	CUT
5105	10	31.3	1.6	1490	CUT
75125	12	32.2	1.6	1610	CUT
75165	16	36.2	2	2150	CUT
75205	20	39.9	2	2485	CUT
75245	24	45.2	2.5	3310	CUT
75305	30	47.7	2.5	3665	CUT
Cross Section :0.75					
7517	1	13.4	0.9	320	CUT
7527	2	19.2	0.9	530	CUT
7537	3	20.1	0.9	605	CUT
7547	4	22.4	1.25	835	CUT
7557	5	24.3	1.25	950	CUT
7567	6	26.1	1.25	1055	CUT
7577	7	26.1	1.25	1100	CUT
75107	10	33.2	1.6	1670	CUT
75127	12	34.1	1.6	1805	CUT
75167	16	38.4	2	2420	CUT
75207	20	42.4	2	2800	CUT
75247	24	48.0	2.5	3710	CUT
75307	30	50.4	2.5	4110	CUT
Cross Section :1.0					
75110	1	13.8	0.9	345	CUT
75210	2	19.9	0.9	570	CUT
75310	3	21.6	1.25	780	CUT
75410	4	23.5	1.25	905	CUT
75510	5	25.3	1.25	1025	CUT
75610	6	27.2	1.25	1140	CUT
75710	7	27.2	1.25	1195	CUT
751010	10	35.4	2	2075	CUT
751210	12	36.5	2	2225	CUT
751610	16	40.1	2	2635	CUT
752010	20	45.7	2.5	3535	CUT
752410	24	50.2	2.5	4040	CUT
753010	30	53.0	2.5	4555	CUT

Code No.	No. of elements	External diameter	Insulation thickness	Cable weight	Packing*
	N x mm ²	approx. mm	nominal mm	approx. kg/km	
Cross Section :1.5					
75115	1	14.4	0.9	385	CUT
75215	2	21.8	1.25	765	CUT
75315	3	23.1	1.25	895	CUT
75415	4	25.0	1.25	1025	CUT
75515	5	26.9	1.25	1170	CUT
75615	6	29.9	1.6	1515	CUT
75715	7	29.9	1.6	1590	CUT
751015	10	38.1	2	2375	CUT
751215	12	39.2	2	2595	CUT
751615	16	44.5	2.5	3545	CUT
752015	20	49.1	2.5	4125	CUT
752415	24	54.0	2.5	4710	CUT
753015	30	58.4	3.15	6025	CUT
Cross Section :2.5					
75125	1	15.8	0.9	455	CUT
75225	2	24.5	1.25	935	CUT
75325	3	25.9	1.25	1090	CUT
75425	4	28.9	1.6	1460	CUT
75525	5	31.4	1.6	1675	CUT
75625	6	33.9	1.6	1895	CUT
75725	7	33.9	1.6	2000	CUT
751025	10	44.7	2.5	3450	CUT
751225	12	46.1	2.5	3785	CUT
751625	16	50.9	2.5	4500	CUT
752025	20	57.9	1.15	6005	CUT
752425	24	63.9	3.15	6890	CUT
753025	30	67.2	3.15	7790	CUT

*) Packing: CUT = cable in different lengths on drum or reel, possible cutting at required length`